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Quantum Liquids

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Quantum liquids have been the subject of intensive study as a consequence of their superfluid properties at very low temperatures. The recent discovery of various superfluid phases in ^3He generated considerable research involving new cryogenic techniques at ultra-low temperatures. The exciting developments in these studies of the superfluid phases of the ^3He system, which obeys Fermi statistical laws, form the principal topics in the present volume. In addition, new developments in the understanding of quasi-particles, and their interactions within the Bose ^4He systems are emphasized, together with recent work on ^3He - ^4He mixtures.

The theoretical development of superfluidity in ^3He is discussed with particular reference to the microscopic analysis of the wave function. The close connection between this theoretical analysis and current experimental studies (including NMR, specific heat, and sound attenuation) is

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Properties of Atomic Defects in Metals

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edited by **N. L. PETERSON** and **R. W. SIEGEL**, Materials Science Division, Argonne National Laboratory, Argonne, Illinois, U.S.A.

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Some 228 scientists from 16 countries attended the International Conference for which this volume presents the proceedings. During the five-day programme of the Conference, twenty-nine invited papers were presented. These papers, all of which are included in these Proceedings, covered the general topics of diffusion, defect concentrations and configurations, defect mobilities, point-defect-solute interactions and point defect applications. In addition, ninety-three of the contributed papers are presented.

The Proceedings provide an excellent current assessment of existing knowledge of the fundamental properties of atomic defects in metals, their interactions with one another and with impurities. The latest theoretical and experimental techniques for the study of such properties are also reviewed with respect to demonstrated capa-

bilities and possible future potential. Finally, the technological aspects of the subject are considered. In all, this volume presents a stimulating overview of work in an actively-pursued field.

CONTENTS: Invited papers were presented by the following authors: *N. L. Peterson; H. Mehrer; C. Herzig, H. Ecksele, W. Bussmann and D. Cardis; D. Ablitzer and A. Vignes; A. D. Le Claire; A. M. Stoneham; R. W. Siegel; W. B. Gauster, A. T. Fiory, K. G. Lynn, W. J. Kossler, D. M. Parkin, C. E. Stronach and W. F. Lankford; M. J. Stott; P. H. Dederichs, C. Lehmann, H. R. Schober, A. Scholz and R. Zeller; P. Ehrhart; A. S. Nowick; J. M. Cowley; R. W. Balluffi; R. P. Sahu, K. C. Jain and R. W. Siegel; M. Kiritani and H. Takata; F. W. Young, Jr.; R. Schindler, W. Frank, M. Rühle, A. Seeger and M. Wilkens; H. R. Schober and R. Zeller; M. Doyama; H. Wollenberger; M. L. Swanson, L. M. Howe and A. F. Quenneville; R. Sizmann; A. Wagner, T. M. Hall and D. Seidman; R. A. Johnson and N. Q. Lam; A. D. Brailsford and R. Bullough; F. A. Nichols; W. Schilling and N. H. March.*

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Crystal Growth 1977

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The 5th International Conference on Crystal Growth (M.I.T., Boston, 1977) was attended by over 650 participants from some 25 nations. In all, more than 265 technical and scientific papers were presented. These proceedings give an excellent picture of the enormously broad scope of the conference.

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New theories and techniques, novel apparatus, and advanced characterization methods are particularly emphasized. One major recent development reflected in these papers is that crystal growth researchers are already making extensive use of the computational activities which have become available, with computers based on single-crystal silicon. Thus such computers are now widely employed

both to develop the theory and to improve the practice of crystal growth, for example, by using computer simulation techniques. This volume gives an outstanding survey of these and many other recent advances in this dynamic field.

CONTENTS: Both contributed and invited papers are presented under the following section headings. Only the authors of the 24 invited papers are listed here: **SECTIONS: I. Theory and Nucleation** (G. H. Gilmer, J. S. Langer, H. Müller-Krumbhaar, I. Gutzow). **II. Vapour Growth and Epitaxy** (A. A. Chernov, J. B. Mullin, M. W. Richardson, B. I. Nöläng, G. Honjo, K. Takayanagi, K. Yagi, H. Höche, H. Bethge). **III. Solution Growth and Electrocrystallization** (G. H. Nancollas, V. Bostanov, P. Bennema, J. P. van der Eerden). **IV. Organic and Biocrystals** (B. Wunderlich). **V. Flux Growth** (W. Tolksdorf). **VI. Liquid Phase Epitaxy** (H. J. Scheel). **VII. Melt Growth** (Basic Studies) (M. E. Glicksman). **VIII. Fluid Dynamics and Microgravity** (J. R. Carruthers). **IX. Melt Growth, Oxides** (B. Cockayne). **X. Growth Techniques and Related Theory** (P. I. Antonov, S. P. Nikanorov, V. A. Tatarchenko, T. Surek, B. Chalmers, A. I. Mlavsky, S. R. Coriell, M. R. Cordes, D. T. J. Hurle). **XI. Eutectics and Alloys** (J. W. Rutter). **XII. Special Materials and New Developments** (R. Nitsche, V. Krämer, M. Schuhmacher, A. Bussmann). **XIII. Defects** (N. Kato).

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The Solid-Vacuum Interface IV

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edited by **A. VAN OOSTROM** and **M. J. SPARNAAY**, *Philips Research Laboratories, Eindhoven, The Netherlands.*

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The aim of this conference was to help improve our understanding of the influence of atomic and geometrical structure on the electronic properties, and the influence of structure and surface composition on the chemical reactivity of solid surfaces. Considerable attention was given to both new theoretical and new experimental results.

In their lectures, the six invited speakers demonstrated the importance of such understanding and the progress which has been made in this respect. In so doing, they covered a large part of current activities in the field of solid surface research. The complete texts of these lectures are included.

Many of the 36 contributed papers selected for publication in this volume present recent results obtained by modern experimental surface analysis

techniques such as UPS, LELS, LEED and ISS. Two important topics treated are the semiconductor surfaces of some group III-V compounds and the reactivity of metal surfaces.

The new results and findings presented in this book will be of great interest to research workers, particularly those concerned primarily with semiconductors and catalysis.

CONTENTS: (Abbreviated) **Invited Papers:** Theoretical descriptions of surface state photoelectron spectroscopy (*J. C. Phillips*). On the correlation of geometrical structure and electronic properties at clean semiconductor surfaces (*W. Mönch*). Desorption methods as probes of kinetics and bonding at surfaces (*T. E. Madey and J. T. Yates, Jr.*). Electron spectroscopy applied to the study of reactivity at metal surfaces - a review (*R. W. Joyner*). Direct observation of individual atoms on metals (*G. Ehrlich*). Multiple ion scattering (*A. L. Boers*). Author index. Subject index.

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